

CLAIMS

1. A microwave generator (11) with a charge storage means (12) and an untriggered discharge spark gap (13) connected in series therewith, characterised in that a plurality of such series circuits of charge storage means (12) and spark gap (13) are connected in parallel with each other, with the connection of an antenna (21) to the single-pole interconnection of the charge storage means (12) and the connection of charging resistors (17) to the connecting points (16) between the charge storage means (12) which are respectively associated therewith and the discharge spark gaps (13) thereof.

2. A microwave generator according to claim 1 characterised in that a series inductor (19) is connected in the common discharge circuit of all charge storage means (12) between the end of the charge storage means (12) which is remote from the spark gap (13) and the end of the spark gap (13), which is remote from the charge storage means (12).

3. A microwave generator according to claim 1 or claim 2 characterised in that the charge storage means (12) are connected in single-pole mode to a common pole bus bar (15), the spark gaps (13) are connected in single-pole mode to a common ground bus bar (14) and the charging resistors (17) are connected in single-pole mode to a common charging bus bar (18)

4. A microwave generator according to one of the preceding claims characterised in that the charging resistors (17) can all be connected jointly in single-pole mode to a high voltage generator (26).

5. A microwave generator according to one of the preceding claims characterised in that the bus bars (14, 15, 18) are of a disc-shaped configuration and in colinear relationship with the charging resistors (17)

thereof the series connections which in turn are of a colinear configuration consisting of charge storage means (12) and spark gaps (13) are grouped around the inductor (19).

6. A microwave generator according to the preceding claim characterised in that the antenna (21) is connected to the pole bus bar (15) by way of a ducting means (28) in the disc-shaped charging bus bar (18) therethrough at the inductor (19).

7. A microwave generator according to the claim preceding the preceding claim characterised in that charging resistors (17) which are arranged colinearly with the charge storage means (12) and the spark gaps (13) thereof and which are connected on the one hand to the disc-shaped charging bus bar (18) are connected on the other hand through holes (29) in the disc-shaped pole bus bar (15) to the connecting points (16) of the charge storage means (12) associated therewith to the spark gaps (13).